



FACILITY PERMIT TO OPERATE PARAMOUNT PETR CORP (EIS USE)

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3 : CATALYTIC REFORMING					
System 2 : HEATERS					
HEATER, H-303, REFINERY GAS, UNIVERSAL OIL PRODUCTS, REFORMER CHARGE, WITH LOW NOX BURNER, 48 MMBTU/HR WITH A/N: 511350 BURNER, JOHN ZINK, MODEL PSFFG-10M, 24 LOW NOX BURNERS, WITH LOW NOX BURNER	D73	C77	NOX: MAJOR SOURCE SOX: MAJOR SOURCE	CO: 2000 PPMV (5)[RULE 407,4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: (9)[RULE 404, 2-7-1986]	B61.2, C1.35, D90.7, D328.2, E448.x H23.4
HEATER, H-304, REFINERY GAS, UNIVERSAL OIL PRODUCTS, REFORMER CHARGE, WITH LOW NOX BURNER, 48 MMBTU/HR WITH A/N: 511351 BURNER, JOHN ZINK, MODEL PSFFG-10M, 24 LOW NOX BURNERS, WITH LOW NOX BURNER	D74	C77	NOX: MAJOR SOURCE SOX: MAJOR SOURCE	CO: 2000 PPMV (5)[RULE 407,4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: (9)[RULE 404, 2-7-1986]	B61.2, C1.35, D90.7, D328.2, E448.x H23.4
HEATER, H-305, REFINERY GAS, UNIVERSAL OIL PRODUCTS, REFORMER REHEAT, WITH LOW NOX BURNER, 38.43 MMBTU/HR WITH A/N: 511352 BURNER, JOHN ZINK, MODEL UOV-4", 18 LOW NOX BURNERS, WITH LOW NOX BURNER	D75	C77	NOX: MAJOR SOURCE SOX: MAJOR SOURCE	CO: 400 PPMV (5A)[RULE 1146, 11-17-2000]; CO: 2000 PPMV (5)[RULE 407,4-2-1982]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; PM: (9)[RULE 404, 2-7-1986]	B61.2, D90.7, D328.1, E448.x H23.4

- * (1)(1A)(1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2)(2A)(2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B) Denotes 40 CFR limits (e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator



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HEATER, H-306, REFINERY GAS, UNIVERSAL OIL PRODUCTS, REFORMER NO. 2 REHEAT, WITH LOW NOX BURNER, 27.72 MMBTU/HR WITH A/N: 511353 BURNER, JOHN ZINK, MODEL PSFFG- 10M, 12 LOW NOX BURNERS, WITH LOW NOX BURNER	D76	C77	NOX: MAJOR SOURCE SOX: MAJOR SOURCE	CO: 400 PPMV (5A)[RULE 1146, 11-17-2000]; CO: 2000 PPMV (5)[RULE 407,4-2-1982]; PM: 0.1 GRAINS/ SCF (5) [RULE 409, 8-7-1981]; PM: (9)[RULE 404, 2-7-1986]	B61.2, C1.36, D90.7, D328.1, E448.x H23.4
System 3 : SELECTIVE CATALYTIC REDUCTION					
SELECTIVE CATALYTIC REDUCTION, VANADIUM OXIDE AND TUNGSTEN OXIDE BASED CATALYST, ENGELHARD CATALYST VOLUME 119.32 CU FT OR HALDOR TOPSOE CATALYST VOLUME 134 CU FT, WIDTH: 7 FT 8.4 IN; HEIGHT: 1 FT 10.8 IN; LENGTH: 10 FT 9.6 IN WITH A/N: 487936 AMMONIA INJECTION, AQUEOUS AMMONIA	C77	D73 D74 D75 D76		NH3: 18 PPMV (5)[RULE 1303(a)(1)-BACT, 5-10-1996 ; RULE 1303(a)(1)- BACT, 12-6-2002]	D28.7 E57.1 E73.1

- * (1)(1A)(1B)Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5)(5A)(5B)Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits

- (2)(2A)(2B)Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8)(8A)(8B)Denotes 40 CFR limits(e.g. NSPS, NESHAPS, etc.)
(10) See Section J for NESHAP/MACT requirements

** Refer to Section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

† This permit to construct was issued to the previous operator at a prior date. The equipment was constructed and the permit was subsequently transferred to this operator



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The operator shall comply with the terms and conditions set forth below:

DEVICE CONDITIONS

B. Material/Fuel Type Limits

B61.2 The operator shall not use fuel gas containing the following specified compounds:

Compound	ppm by volume
H2S greater than	160

The H2S concentration limit shall be based on a rolling 3-hr averaging period.

[40CFR60 Subpart J, 6-24-2008]

[Devices subject to this condition: D27, D29, D30, D31, D44, D45, D46, D73, D74, D75, D76, C175]

C. Throughput or Operating Parameter Limits

C1.35 The operator shall limit the firing rate to no more than 48 MM Btu per hour.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition: D73, D74]

C1.36 The operator shall limit the firing rate to no more than 27.7 MM Btu per hour.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition: D76]

D. Monitoring/Testing Requirements



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The operator shall comply with the terms and conditions set forth below:

D28.7 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine NH₃ emissions at the outlet.

The test shall be conducted at least once every three years.

The test shall be conducted when the equipment being vented by the SCR are operating under normal conditions.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition: C77]

D90.7 The operator shall continuously monitor the H₂S concentration in the fuel gases before being burned in this device according to the following specifications:

The operator shall use an NSPS Subpart J approved instrument meeting the requirements of 40CFR60 Subpart J to monitor the parameter.

The operator shall also install and maintain a device to continuously record the parameter being monitored.

The operator may monitor the H₂S concentration at a single location for fuel combustion devices, if monitoring at this location accurately represents the concentration of H₂S in the fuel gas being burned in this device.

[40CFR60 Subpart J, 6-24-2008]

[Devices subject to this condition: D27, D44, D46, D73, D74, D75, D76, C175]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO concentration limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirement in Sections E and K of this permit.

[Rule 1146, 11-17-2000; Rule 3004(a)(4)-Periodic Monitoring, 12-12-1997; Rule 407, 4-2-1982]

[Devices subject to this condition: D27, D31, D75, D76, D374]

D328.2 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under



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The operator shall comply with the terms and conditions set forth below:

normal conditions to demonstrate compliance with the CO concentration limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirement in Sections E and K of this permit.

[Rule 3004(a)(4)-Periodic Monitoring, 12-12-1997; Rule 407, 4-2-1982]

[Devices subject to this condition: D29, D30, D73, D74, D375, D376]

E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to dust control equipment whenever SCR catalyst loading/unloading or handling/transport operations produces catalyst fines.

[Rule 1303(a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT, 12-6-2002; Rule 1303(b)(2)-Offset, 5-10-1996; Rule 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition: C77, C794, C814]

E73.1 Notwithstanding the requirements of Section E conditions, the operator is not required to use ammonia injection if any of the following requirement(s) are met:

The temperature at the inlet of the SCR catalyst bed is below 550 deg F.

[Rule 1303(a)(1)-BACT, 5-10-1996; Rule 1303(a)(1)-BACT]

[Devices subject to this condition: C77]

E448.x The operator shall comply with the following requirements:

The operator shall maintain the SCR bypass stack dampers for heaters D73, D74, D75, and D76 at a fully closed position such that no emissions will be exhausted through the bypass stacks whenever fuel is supplied to the heaters.

The operator shall install and maintain damper limit switches or other equivalent device to accurately indicate the fully closed position of the SCR bypass stack dampers.

The operator shall record the position of the dampers at least once every 15 minutes and any time the damper position changes.



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The operator shall comply with the terms and conditions set forth below:

The operator shall install and maintain an automatic fuel shutoff system to cut off the fuel supply to this device whenever any of the bypass stack dampers is not in the fully closed position. This fuel shut-off valve may be removed for maintenance provided the heater which it serves is out of service and isolated (blinded) from its fuel supply.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with the requirements specified under this condition.

[Rule 2012, 5-6-2005]

[Devices subject to this condition: D73, D74, D75, D76]

H. Applicable Rules

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

[40CFR60 Subpart J, 6-24-2008]

[Devices subject to this condition: D27, D29, D30, D31, D44, D45, D46, D73, D74, D75, D76, C175, C531]